

## CLAIMS

1. An apparatus for controlling the transmission energy of signals received  
2 from a remote transmitter, comprising:  
3 receiver for measuring an energy of the signals to produce an energy  
4 indication; and  
5 power control processor for generating a signal quality metric based on  
6 said measuring, generating closed loop power control commands in  
7 accordance with a comparison between the signal quality metric and a variable  
8 threshold, making a determination that the remote transmitter is not responding  
9 to the power control commands in a predetermined fashion, and suspending an  
10 updating of the variable threshold in accordance with said determination.
2. The apparatus of claim 1 wherein said signal quality metric is a signal to  
2 interference ratio, and wherein said power control processor comprises a signal  
3 to interference ratio computation element for generating said signal to  
4 interference ratio based on the energy indication.
3. The apparatus of claim 1 further comprising a demodulator for  
2 demodulating the signals and measuring demodulated symbol energies from  
3 symbols residing in said signals, and providing said demodulated symbol  
4 energies to said power control processor, wherein said power control processor  
5 generates said signal quality metric based on said demodulated symbol  
6 energies.
4. The apparatus of claim 1 further comprising a decoder for decoding  
2 frames residing in said signals and generating frame error information, and  
3 providing said frame error information to said power control processor, and  
4 wherein said power control processor makes said determination based on said  
5 frame error information.

5. The apparatus of claim 1 further comprising a decoder for decoding  
2 frames residing in said signals and generating a decoder metric, and providing  
said decoder metric to said power control processor, and wherein said power  
4 control processor makes said determination based on said decoder metric.

6. The apparatus of claim 1 further comprising a decoder for decoding  
2 frames residing in said signals and generating a decoder metric and frame error  
information, and providing said decoder metric and frame error information to  
4 said power control processor, and wherein said power control processor makes  
said determination based on said decoder metric and frame error information.

7. A method of controlling a transmission energy of signals received from a  
2 remote transmitter, comprising:  
measuring an energy of the signals to produce an energy indication;  
4 generating a signal quality metric based on said measuring;  
generating closed loop power control commands in accordance with a  
6 comparison between the signal quality metric and a variable threshold;  
making a determination that the remote transmitter is not responding to  
8 the power control commands in a predetermined fashion; and  
suspending an updating of the variable threshold in accordance with said  
10 determination.

8. The method of claim 7 wherein said signal quality metric is a signal to  
2 interference ratio.

9. The method of claim 7 further comprising demodulating symbols residing  
2 in the signals to produce symbol energies, wherein said generating said signal  
quality metric is based on said demodulated symbol energies.

10. The method of claim 7 further comprising decoding frames residing in  
2 the signals to produce frame error information, wherein said making a  
determination is based on said frame error information.

11. The method of claim 7 further comprising decoding frames residing in  
2 the signals to produce a decoder metric, wherein said making a determination  
is based on said decoder metric.

12. The method of claim 7 further comprising decoding frames residing in  
2 the signals to produce a decoder metric and frame error information, wherein  
said making a determination is based on said decoder metric and frame error  
4 information.

13. The method of claim 7 wherein said making a determination comprises  
2 detecting a gating of the transmission energy of the signals based on said  
energy indication.

14. The method of claim 7 wherein said making a determination comprises  
2 recognizing an absence of increase in said energy indication in response to at  
least one of said closed loop power control commands.